

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	M115767	Client:	Alaskan Copper Works
Date Received:	02/08/07	Project:	PO# M115767, F&BI 702091
Date Extracted:	02/13/07	Lab ID:	702091-01 x10
Date Analyzed:	02/13/07	Data File:	702091-01 x10.018
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	HR

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	101	60	125

Analyte:	Concentration ug/L (ppb)
Chromium	660
Nickel	645
Copper	292
Zinc	15.1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	Method Blank	Client:	Alaskan Copper Works
Date Received:	Not Applicable	Project:	PO# M115767, F&BI 702091
Date Extracted:	02/13/07	Lab ID:	I7-47 mb
Date Analyzed:	02/14/07	Data File:	I7-47 mb.012
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	HR

Internal Standard:	% Recovery:	Lower	Upper
Germanium	100	Limit:	Limit:
		60	125

Analyte:	Concentration ug/L (ppb)
Chromium	<1
Nickel	<1
Copper	<1
Zinc	<1

FRIEDMAN & BRUYA, INC.**ENVIRONMENTAL CHEMISTS**

Date of Report: 02/20/07

Date Received: 02/08/07

Project: Metro Self Monitor, PO# M115767, F&BI 702091

**QUALITY ASSURANCE RESULTS
FOR THE ANALYSIS OF WATER SAMPLES FOR TOTAL METALS
BY EPA METHOD 200.8**

Laboratory Code: 702131-01 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	Relative Percent Difference	Acceptance Criteria
Chromium	ug/L (ppb)	1.65	1.46	12	0-20
Nickel	ug/L (ppb)	11.6	11.2	4	0-20
Copper	ug/L (ppb)	1.35	1.32	2	0-20
Zinc	ug/L (ppb)	36.9	36.1	2	0-20

Laboratory Code: 702131-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Acceptance Criteria
Chromium	ug/L (ppb)	20	1.65	104	50-150
Nickel	ug/L (ppb)	20	11.6	95 b	50-150
Copper	ug/L (ppb)	20	1.35	96	50-150
Zinc	ug/L (ppb)	50	36.9	93 b	50-150

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Chromium	ug/L (ppb)	20	109	70-130
Nickel	ug/L (ppb)	20	111	70-130
Copper	ug/L (ppb)	20	108	70-130
Zinc	ug/L (ppb)	50	101	70-130

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Charlene Morrow, M.S.
Yelena Aravkina, M.S.
Bradley T. Benson, B.S.
Kurt Johnson, B.S.



3012 16th Avenue West
Seattle, WA 98119-2029
TEL: (206) 285-8282
FAX: (206) 283-5044
e-mail: fbi@isomedia.com

February 20, 2007

INVOICE #07ACU0220-1

Accounts Payable
Alaskan Copper Works
628 South Hanford
Seattle, WA 98134

RE: Project Metro Self Monitor, PO# M115767, F&BI 702091 - Results of testing
requested by Gerry Thompson for material submitted on February 8, 2007.

1 sample analyzed for Total Chromium, Copper, Nickel and Zinc by Method 200.8 @ \$80 per sample	\$ 80.00
Rush Charges (4 day) 60% of \$80.00	<u>48.00</u>
Amount Due	\$ 128.00

FEDERAL TAX ID #

(b) (6)

702091

SAMPLE CHAIN OF CUSTODY

ME 02/08/07

A14

Send Report To

Gerald Thompson

Company

Alaskan Copper Works

Address

628 S. Handford St

City, State, ZIP

Seattle WA 98134

Phone #

206-382-8579

Fax #

206-382-4309

SAMPLE # (signature)

PROJECT NAME/NO.

Metro Self Monitor

PO #

M115767

REMARKS

Page # of

TURNAROUND TIME

☐ Standard (2 Weeks)☒ RUSH

Rush charges authorized by:

SAMPLE DISPOSAL

☐ Dispose after 30 days☐ Return samples☐ Will call with instructions

Sample ID	Lab ID	Date	Time	Sample Type	# of containers	ANALYSES REQUESTED										Notes
						TPH-Diesel	TPH-Gasoline	BTEX by 8021B	VOCs by 8260	SVOCs by 8270	HFS					
M115767	01	2/8/07	11:30	Ac	1											

Friedman & Bruya, Inc.
3012 16th Avenue West

Seattle, WA 98119-2029

Ph. (206) 285-8282

Fax (206) 283-5044

FORMS\COC\COC.DOC

SIGNATURE

Relinquished by:

G. Thompson

Received by:

M. Phan

Relinquished by:

Received by:

PRINT NAME

G. Thompson

Phan Phan

COMPANY

ACW

Fe B I

DATE

2/8/07

2/8/07

TIME

1:45pm

1:45

Samples received at 20 °C

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Charlene Morrow, M.S.
Yelena Aravkina, M.S.
Bradley T. Benson, B.S.
Kurt Johnson, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
TEL: (206) 285-8282
FAX: (206) 283-5044
e-mail: fbi@isomedia.com

February 20, 2007

Gerry Thompson, Project Manager
Alaskan Copper Works
628 South Hanford
Seattle, WA 98134

Dear Mr. Thompson:

Included are the results from the testing of material submitted on February 8, 2007 from the Metro Self Monitor, PO# M115767, F&BI 702091 project. There are 3 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Michael Erdahl
Project Manager

Enclosures
ACU0220R.DOC